

Form PTO-1449

INFORMATION DISCLOSURE CITATION IN AN APPLICATION

(Use several sheets if necessary)

ATTY. DOCKET NO. 2059-0103P APPLICATION NO. 09/890,425

APPLICANT

Harold G. BROWN et al.

FILING DATE

February 19, 2002

GROUP 1651

U.S. PATENT DOCUMENTS

EXAMINER	DOCUMENT NUMBER	77 3	22.22				
INITIAL	DOCUMENT NUMBER	Kind	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
	US 4,248,861		02-03-1981	SCHUTT			
	US 4,474,763		10-02-1984	LUBOWE			
	US 4,707,354		11-17-1987	GARLEN et al.			
	US 5,013,726		05-07-1991	IVY et al.			
	US 5,073,366		12-17-1991	BECK			
	US 4,973,473		11-27-1990	SCHNEIDER et al.			

FOREIGN PATENT DOCUMENTS

Office	DOCUMENT NUMBER	Kind	DATE	COUNTRY	CLASS	SUB CLASS	TRANS	LATION NO
JP	S62-77308		04-09-1987	JAPAN				

OTHER DOCUMENTS (Include Name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.

DAVID C. STEINBERG, Cosmetic Technology. Mucopolysaccharides for cosmetics, (February 1982), pp.41-44,

Article: Essense Oils, 2 pages DSH Perfumes 2004 /T.U./

Chemistry 470-"Industrial Chemistry", Spring 2004, Internet, 6 pages.

SRIVAS R. SRINIVAS, Atlas of Essential Oils, 2 pages. 1996

/T.U./

D. KOBAYASHI et al., Pharmaceutical Research, Vol. 11, No. 1, 1994, Analysis of the Combined Effect of 1-Menthol and Ethanol as Skin Permeation Enhancers Based on a Two-Layer Skin Model (article), received 12-4-1992 - accepted 6-22-1993; pp.96-103,

HANS SCHAEFER et al.; Skin Barrier (article), 3 pages, Karger 1996

/T.U./

Claire PARISEL et al., Interactions of heparin with human skin cells: Binding, location, and transdermal penetration (article); Received 11-5-2002, Accepted 3-4-2003; pp.517-523; 2003 Wiley Periodicals, Inc.

PANKAJ KARANDE et al., Nature Biotechnology-Advance Online Publication, Discovery of transdermal penetration enhancers by high-throughput screening (article), published online (1-4-2004), pp.1-6.

GREGORY M. GLENN et al., Nature Vol. 391, Skin immunization made possible by cholera toxin (article), (February 26, 1998), 1 page,

GREGORY M. GLENN et al., Cutting Edge, Cutting Edge: Transcutaneous Immunization with Cholera Toxin Protects Mice Against Lethal Mucosal Toxin Challenge (article), pp.3211-3214. 1998

EXAMINER

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EXAMINER: Initial if citation considered, whether or not citation is in conformance with M.P.E.P. 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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